

PROJECT DESCRIPTION

THIS PROJECT INVOLVES MODIFYING THE TRAFFIC SIGNAL AT MD 414 (OXON HILL ROAD)/ NB I-95/I-495 OFF RAMP (RAMP F-1 AND G). THIS INTERSECTION WILL BE INTERCONNECTED WITH MD 414/SOUTH ROAD VIA COMMUNICATION CABLE. THE EXISTING INTERCONNECT FROM MD 414/NB I-95/I-495 OFF RAMP (RAMP F-1 AND G) TO MD 414/LIVINGSTON ROAD SHALL BE MAINTAINED. IT IS ASSUMED THAT MD 414 (OXON HILL ROAD) RUNS IN AN EAST-WEST DIRECTION. THE POSTED SPEED LIMIT IS 30 MPH.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE OPERATION, FULLY-ACTUATED MODE. MD 414 (OXON HILL ROAD) AND NB I-95/I-495 OFF RAMP WILL OPERATE IN SEPARATE PHASES. AN EXCLUSIVE LEFT-TURN PHASE WILL BE PROVIDED FOR THE EASTBOUND MD 414 (OXON HILL ROAD) APPROACH. THE SOUTHBOUND RIGHT-TURN FROM THE NB I-95/I-495 OFF-RAMP WILL OPERATE CONCURRENTLY WITH THE EASTBOUND MD 414 (OXON HILL ROAD) LEFT-TURN PHASE. PEDESTRIAN SIGNALS WILL OPERATE CONCURRENTLY WITH THE WESTBOUND MD 414 (OXON HILL ROAD) PHASE.

CONTROLLER REQUIREMENTS

USE THE EXISTING FULL-TRAFFIC-ACTUATED, SOLID STATE EIGHT-PHASE CONTROLLER WITH TELEMETRY MODULE AND VIDEO TRAFFIC DETECTION SYSTEM HOUSED IN A NEMA SIZE '6' BASE MOUNTED CABINET.

SPECIAL NOTE:

REMOVE LUMINAIRE AND LIGHTING ARM FROM TRAFFIC SIGNAL POLE LOCATED IN NORTHWEST CORNER OVER WESTBOUND MD 414 WHEN PROPOSED STREETLIGHTING ALONG THIS SECTION IS OPERATIONAL. COORDINATE WITH LIGHTING CONTRACTOR.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 3 ARE:  
MR. BRIAN YOUNG  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
301-513-7358

MR. AUGUSTINE REBISH  
ASSISTANT DISTRICT ENGINEER - UTILITIES  
301-513-7350

MR. WAYNE MOWDY  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
301-513-7304

THE CONTACT PERSONS FOR THE OFFICE OF TRAFFIC AND SAFETY ARE:  
MR. RICHARD DAFF  
DIVISION CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ROBERT SYNDER  
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS  
410-787-7631

MR. ED RODENHIZER  
CHIEF, SIGNAL OPERATIONS  
410-787-7652

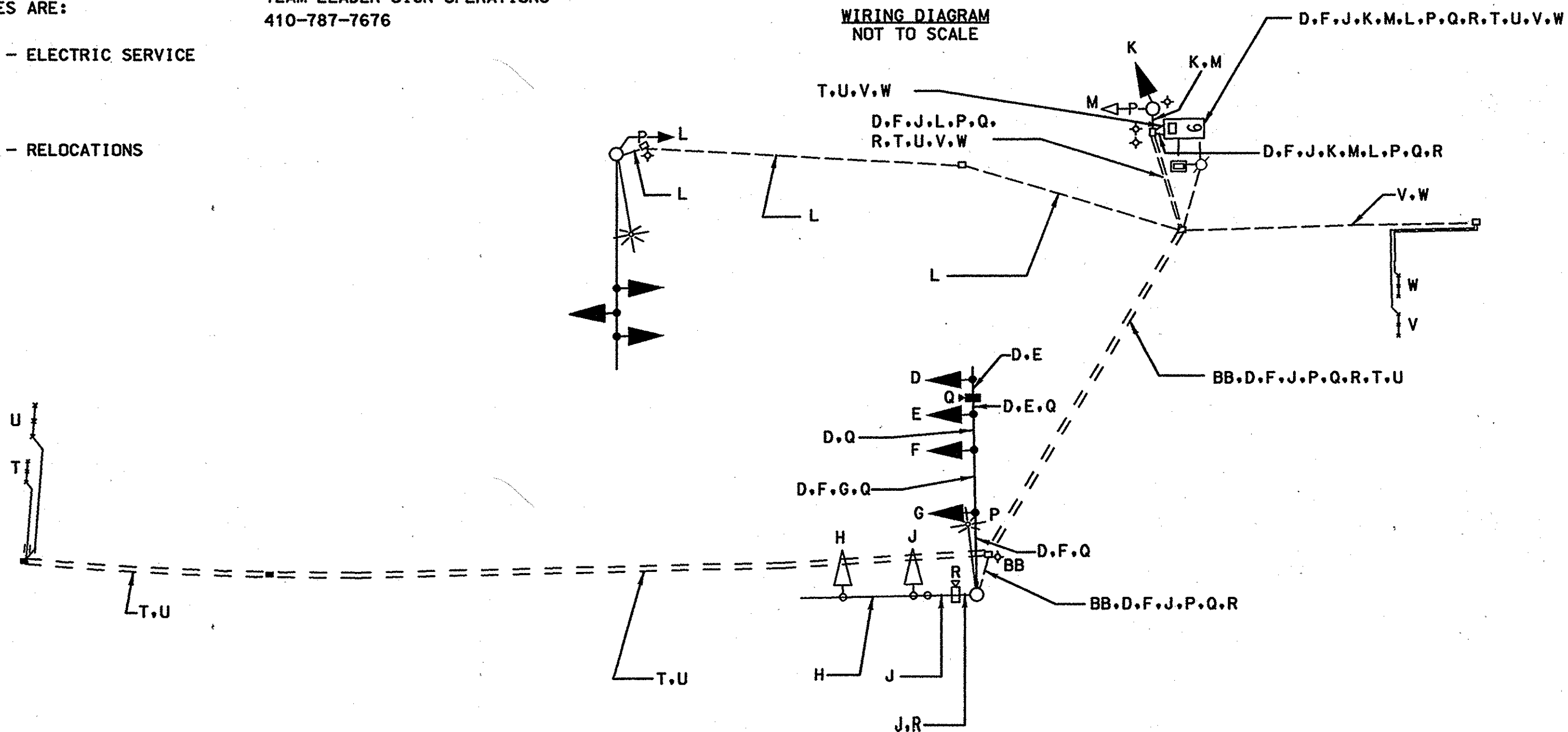
MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
410-787-7676

THE POWER COMPANY REPRESENTATIVES ARE:

MR. RICHARD CHILCOAT  
POTOMAC ELECTRIC POWER COMPANY - ELECTRIC SERVICE  
301-967-5805

MR. JOE NICE  
POTOMAC ELECTRIC POWER COMPANY - RELOCATIONS  
202-388-2581

MD 414 OXON HILL ROAD IS ASSUMED  
TO RUN IN AN EAST-WEST DIRECTION



WIRING LEGEND

- P - 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- L.M - 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E.G.H.K - 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D.F.J - 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- Q.R - VIDEO TRAFFIC DETECTION CONTROL CABLE (NO. 18 A.W.G.)
- BB - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- T.U.V.W - MICRO-LOOP LEAD IN CABLE
- ⊕ - EXISTING GROUND ROD 3/4" x 10'

NOTE: EXISTING WIRING NOT DETAILED SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE MDSA.

CAT. CODE	QUANTITY	DESCRIPTION
973023	19 SF	SHEET ALUMINUM SIGNS CONSISTING OF: -2 EACH R3-5L (30"x36") - MAST ARM MOUNT -1 EACH R10-11b (24"x24") - MAST ARM MOUNT

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CAT. CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
585462	170 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
585620	160 LF	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585624	65 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
801607	19 SF	INSTALL SHEET ALUMINUM SIGN
802501	170 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805118	110 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805135	350 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805160	15 LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810550	4 EA	MIRCOLOOP PROBE, 500 FOOT LEAD IN CABLE
811001	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
860265	18 EA	RELOCATE EXISTING SIGNAL HEAD SECTIONS
860272	6 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860278	2 EA	12 PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT
861106	250 LF	ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
861107	50 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861116	250 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
861108	800 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
862102	225 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
800000	1 LS	REMOVE AND DISPOSE OF EXISTING MATERIALS AND EQUIPMENT
818010	1 EA	14 FOOT BREAKAWAY PEDESTAL POLE
800000	2 EA	VIDEO TRAFFIC DETECTION CONTROL CABLE 300 FEET

C. ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

NOTE: NO EQUIPMENT IS TO BE RETURNED TO MDSA. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 6	←G	←G	←G	G	G	R	R	R	R	R	DW	DW
1 CHANGE	←Y	←Y	←Y	G	G	R	R	R	R	R	DW	DW
PHASE 2 & 6	←R	←R	←R	G	G	G	G	R	R	R	W	W
PED CLEAR	←R	←R	←R	G	G	G	G	R	R	R	FL DW	FL DW
2 & 6 CHANGE	←R	←R	←R	Y	Y	Y	Y	R	R	R	DW	DW
PHASE 4	←R	←R	←R	R	R	R	R	G	G	G	DW	DW
4 CHANGE	←R	←R	←R	R	R	R	R	Y	Y	Y	DW	DW
FLASHING	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	DARK	DARK

GREEN LINE NO. 1  
JUNE 29, 2007

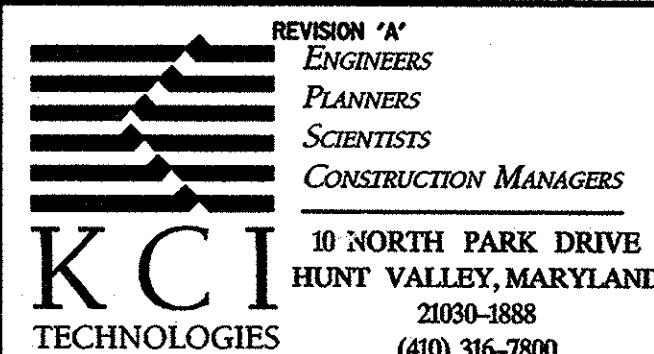
ADDENDUM NO. 4  
MARCH 10, 2005  
SHEET REPLACED

SP-14 OF SP-23



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET  
MD 414 OXON HILL ROAD AT NB I-95 ON/OFF RAMP (RAMP F-1 AND G)



DRAWN BY: M. PIERRE	F.A.P. NO. SEE TITLE SHEET	TS NO. 4135A-61	SHEET NO. 294 OF 402
CHECKED BY: J. LAWRENCE	S.H.A. NO. PG5075173	T.I.M.S. NO. E149	
SCALE: NONE	COUNTY: PRINCE GEORGE'S		
DATE: 12-7-04	LOG MILE: 16041400.16		